

Message

**From:** "Rebecca S Shaftel" ["Rebecca S Shaftel" <rsshafte@uaa.alaska.edu>]  
**Sent:** 10/11/2011 10:21:13 PM  
**To:** Phil North/R10/USEPA/US@EPA; Richard Parkin/R10/USEPA/US@EPA; ichard Parkin/R10/USEPA/US@EPA  
**CC:** Glenn Suter/CI/USEPA/US@EPA; Jeff Frithsen/DC/USEPA/US@EPA; Judy Smith/R10/USEPA/US@EPA; [mwiedmer@uw.edu]; eff Frithsen/DC/USEPA/US@EPA; Judy Smith/R10/USEPA/US@EPA; [mwiedmer@uw.edu]; udy Smith/R10/USEPA/US@EPA; [mwiedmer@uw.edu]; mwiedmer@uw.edu>; Palmer Hough/DC/USEPA/US@EPA; Sheila Eckman/R10/USEPA/US@EPA; almer Hough/DC/USEPA/US@EPA; Sheila Eckman/R10/USEPA/US@EPA; heila Eckman/R10/USEPA/US@EPA  
**Subject:** RE: What I have found so far on Humble and Big Chunk  
**Attachments:** Map of claims by applicant.pdf; Mining Claims in project area.xlsx; TWUPCASES.xls

Hi everyone,

Phil and I looked into Temp. water use permits (TWUPs) as a proxy for mining activity last February or so, per advice from Marcus Geist at TNC. ADNR maintains a website where you can download all active TWUPs for the last 5 years:

[http://dnr.alaska.gov/mlw/mapguide/water/twup\\_start\\_tok.cfm](http://dnr.alaska.gov/mlw/mapguide/water/twup_start_tok.cfm)

(At the bottom of the page, select all active authorizations by one of the two options. Once the list is generated, scroll to the very bottom to output the report to Excel.)

I contacted Michael Walton at ADNR to request ALL (>5 years old too) TWUPs for the Seward Meridian. michael.walton@alaska.gov  
I've attached that file in case anyone is interested (TWUPCASES.xls). ADNR uses Township/range/section information to track locations instead of lat/longs so it is a little tricky to spatially attribute them to Bristol Bay. The basic steps are to clip the TRS data in GIS to Bristol Bay and run a join with the TWUP table. I did the same thing for the mining claims data.

I've attached a map and a workbook that contains the results of the analysis I did working with Phil last winter. Note that both the mining claims data and the TWUPs were downloaded from ADNR around that time so they should be updated for a final analysis. The map shows the locations where specific exploration companies have mining claims. The "Table" worksheet in the attached excel file (Mining Claims in project area.xls) has the summary information indicating the total acreage of mining claims and TWUPs (including closed ones = >5 years old) by exploration company. I also did a summary by prospect name, but Pebble is applied pretty liberally and I think includes the Big Chunk prospect.

If anyone has questions or would like more detail on the analysis or data, please call.

Becky

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907-786-4965

-----Original Message-----

From: North.Phil@epamail.epa.gov [mailto:North.Phil@epamail.epa.gov]  
Sent: Tuesday, October 11, 2011 1:33 PM  
To: Parkin.Richard@epamail.epa.gov  
Cc: suter.glenn@epamail.epa.gov; Frithsen.Jeff@epamail.epa.gov;  
Smith.Judy@epamail.epa.gov; mwiedmer@uw.edu;  
Hough.Palmer@epamail.epa.gov; Eckman.Sheila@epamail.epa.gov; Rebecca S  
Shaftel  
Subject: Re: What I have found so far on Humble and Big Chunk

Rick,  
Becky has done a lot of this research. You might call her to see what  
she has already compiled and how she did it. 786-4965

Phil

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fax 260-5992  
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"To protect your rivers, protect your mountains."

From: Richard Parkin/R10/USEPA/US  
To: Glenn Suter/CI/USEPA/US@EPA, Sheila Eckman/R10/USEPA/US@EPA,  
Jeff Frithsen/DC/USEPA/US@EPA, Palmer Hough/DC/USEPA/US@EPA,  
Judy Smith/R10/USEPA/US@EPA, Phil North/R10/USEPA/US@EPA,  
mwiedmer@uw.edu  
Date: 10/11/2011 07:14 AM  
Subject: What I have found so far on Humble and Big Chunk

Glen and Company, I haven't found a lot on Humble and Big Chunk, but  
what I have is listed below and in another memo from TNC I will forward  
you. I am still trying to work with DNR to get the Water Use permits  
and Applications on the claims where there has been exploration. Their  
permit system is not easy to access. We will need their cooperation.

Humble Prospect  
Millrock Resources, Inc.

Nushagak Watershed:

10 miles or so west of the River and the village of Koliganek,

Includes at least 18 anadromous tributaries of the Nushagak River.

366 mining claims, approximately 23698 ha. 58558A 91 sq miles

Here is a map from Mike Wiedmer showing where he collected salmon.

[attachment "Kemuk\_Mtn\_AWC\_Survey\_Results\_c.pdf" deleted by Phil North/R10/USEPA/US]

Big Chunk Prospect

Liberty Star Uranium and Metals Corp.

Just North of Pebble

6 to 7 porphyry Copper ZTEM geophysical signatures

These anomalies are in the size range of the foot print of the nearby Pebble deposits.

Drilling four holes in 2004 showed visible copper mineralization in 2 holes and visible molybdenite in several places in one hole. Low grade gold was also encountered.

Here are a couple maps of Big Chunk but they don't really show where it is or the local streams. [attachment "big\_chunk\_bonanza\_claims\_05.gif" deleted by Phil North/R10/USEPA/US] [attachment "Big chunk.jpg" deleted by Phil North/R10/USEPA/US]

I will also forward a message from Marcus Geist of TNC showing information they have dug up on claims and water use permits.

Rick Parkin  
U.S. EPA, Region 10  
(206) 553-8574